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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/540,621	08/18/2005	Nobutoshi Doi	NPR-171	7176
	7590 10/29/2008		EXAMINER	
Kubovcik & Kubovcik The Farragut Building Suite 710 900 17th Street			NGUYEN, TUAN VAN	
			ART UNIT	PAPER NUMBER
Washington, DC 20006			3731	
			MAIL DATE	DELIVERY MODE
		·	10/29/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

,,,		Application No.	Applicant(s)
		10/540,621	DOI ET AL.
	Office Action Summary	Examiner	Art Unit
		TUAN V. NGUYEN	3731
Period fo	The MAILING DATE of this communication app		ith the correspondence address
A SH WHIC - Exte after - If NC - Failu Any	IORTENED STATUTORY PERIOD FOR REPL' CHEVER IS LONGER, FROM THE MAILING DA resions of time may be available under the provisions of 37 CFR 1.1 resix (6) MONTHS from the mailing date of this communication. Depriod for reply is specified above, the maximum statutory period varieto reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing led patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNI 36(a). In no event, however, may a will apply and will expire SIX (6) MON , cause the application to become Al	CATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
Status		· .	
2a)□	Responsive to communication(s) filed on <u>08 N</u> . This action is FINAL . 2b) This Since this application is in condition for alloware closed in accordance with the practice under E	action is non-final. nce except for formal mat	
Disposit	ion of Claims		
5)□ 6)⊠ 7)□	Claim(s) <u>1-14</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdray. Claim(s) is/are allowed. Claim(s) <u>1-14</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/o	wn from consideration.	
Applicat	ion Papers		
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine	epted or b) objected to drawing(s) be held in abeyar ion is required if the drawing	nce. See 37 CFR 1.85(a). i(s) is objected to. See 37 CFR 1.121(d).
Priority (under 35 U.S.C. § 119	•	
12)⊠ a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document: 2. Certified copies of the priority document: 3. Copies of the certified copies of the priority application from the International Bureau See the attached detailed Office action for a list	s have been received. s have been received in A rity documents have been u (PCT Rule 17.2(a)).	Application No received in this National Stage
Attachmer		_	
2) Notice	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date 11/8/05.	Paper No(Summary (PTO-413) s)/Mail Date nformal Patent Application

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DETAILED ACTION

Drawings

1. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: reference letters (B) and (C) are not shown in the drawings. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

- 2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:
 - A person shall be entitled to a patent unless -
 - (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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3. Claims 1, 3-13 are rejected under 35 U.S.C. 102(b) as being anticipated by Doi et al. (Patent Application Pub. No. US 2002/0161450 A1).

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- 4. Referring to claim 1, Doi discloses (Fig. 1) a nerve generation tube comprising: a tubular structure 1 made of biodegradable material or bioabsorable material including a sponge matrix made of biodegradable material or bioabsorbable material and plurality of linear nerve inducing channel 2; and a space capable for insertion of a nerve end (left side of Fig. 1) ([0014] and [0034]).
- 5. Referring to claims 3 and 5, Doi discloses biodegradable material comprises protein, a polypeptype, a derivative thereof polylactice acid, polyglycolic acid ([0045]-[0046]).
- 6. Referring to claim 4, Doi discloses the bioabsorbable material comprises a porous substance ([0056]).
- 7. Referring to claims 6 and 9, Doi discloses the biodegradable material or bioabsorbable is collagen ([0047]) and the sponge matrix comprises of collagen sponge ([0049] and [0056])
- 8. Referring to claims 7 and 8, Doi discloses the tubular structure is made of fibrous material from short fiber, long fiber, filament, floc, or non-woven fabric ([0049]).
- 9. Referring to claims 10-13, Doi discloses the nerve-inducing channel is formed by plurality of fibers or hollow fibers ([0052]] and [0053]).
- 10. Claim 14 is rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Doi et al. (Patent Application Pub. No. US 2002/0161450 A1).

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11. Referring to claim 14, Doi discloses a method for generating nerve by using the device as shown in Figure 1, inserting the nerve end into the space (left side of Fig. 1) ([0011]) and suturing the ends of peripheral nerve ([0073]) to the tubular structure ([0069]). Doi fails to disclose the suture is a bio suture, however, biodegradable and bioabsorbable suture is old and well known in the art for the characteristic of the suture is decomposed in a living organism after the wound is completely heal, thereby, leave behind no foreign object in a living organism. It would have been obvious to one of ordinary skill in the to use biodegradable or bioabsorbable or biocompatible suture to secure the tubular device of Doi to the nerve so that it too would have the same advantage.

Claim Rejections - 35 USC § 103

- 12. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 13. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.

3. Resolving the level of ordinary skill in the pertinent art.

4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

- 14. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Doi et al. (Patent Application Pub. No. US 2002/0161450 A1).
- 15. Doi discloses the invention substantially as claimed except for the dimension of the space. It would have been obvious to one of ordinary skill in the art at the time the invention was made by the applicant to design the length of the space of about 1 to 20 mm, since it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art. *In re Boesch*, 617 F.2d 272, 205 USPQ 215 (CCPA 1980).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan V. Nguyen whose telephone number is 571-272-5962. The examiner can normally be reached on M-F: 9:00 AM - 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Todd Manahan can be reached on 571-272-4713. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/T. V. N./

Examiner, Art Unit 3731